

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF COUNTDOWN PEDESTRIAN SIGNAL HEADS AND A.P.S. ACROSS THE NORTH LEG OF US 1 AT THE INTERSECTION OF US 1 (WASHINGTON BLVD.) AND LEVERING AVENUE IN HOWARD COUNTY. ALL YELLOW FACED VEHICULAR TRAFFIC SIGNAL HEADS WILL BE REPLACED WITH BLACK FACED LED VEHICULAR TRAFFIC SIGNAL HEADS, INCLUDING THE HIB SIGNAL HEADS LOCATED SOUTH OF THE INTERSECTION. US 1 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/PERMISSIVE LEFT TURN PHASING FOR BOTH THE NORTH- AND SOUTH BOUND APPROACHES. AN ALTERNATE PEDESTRIAN PHASE WILL BE ADDED.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CONTROLLER, LOOP DETECTION AMPLIFIERS, AND ASSOCIATED HARNESSES SHALL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140

Mrs. Andrea Abend
Assistant District Engineer - Utility
Phone: 301-624-8115

Mr. Ray Johnson
Assistant District Engineer - Maintenance
Phone: 301-624-8108

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

The Power Company Representative is:
Baltimore Gas & Electric Company
7317 Parkway Drive South
Hanover, Maryland 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9571	11 SF	[UPDATED] SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN
	2 EA	- R10-4(1) (9 IN. X 12 IN.) POLE MOUNT
	1 -	W3-3 FY, (36 IN. X 36 IN.) MAST ARM MOUNT

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
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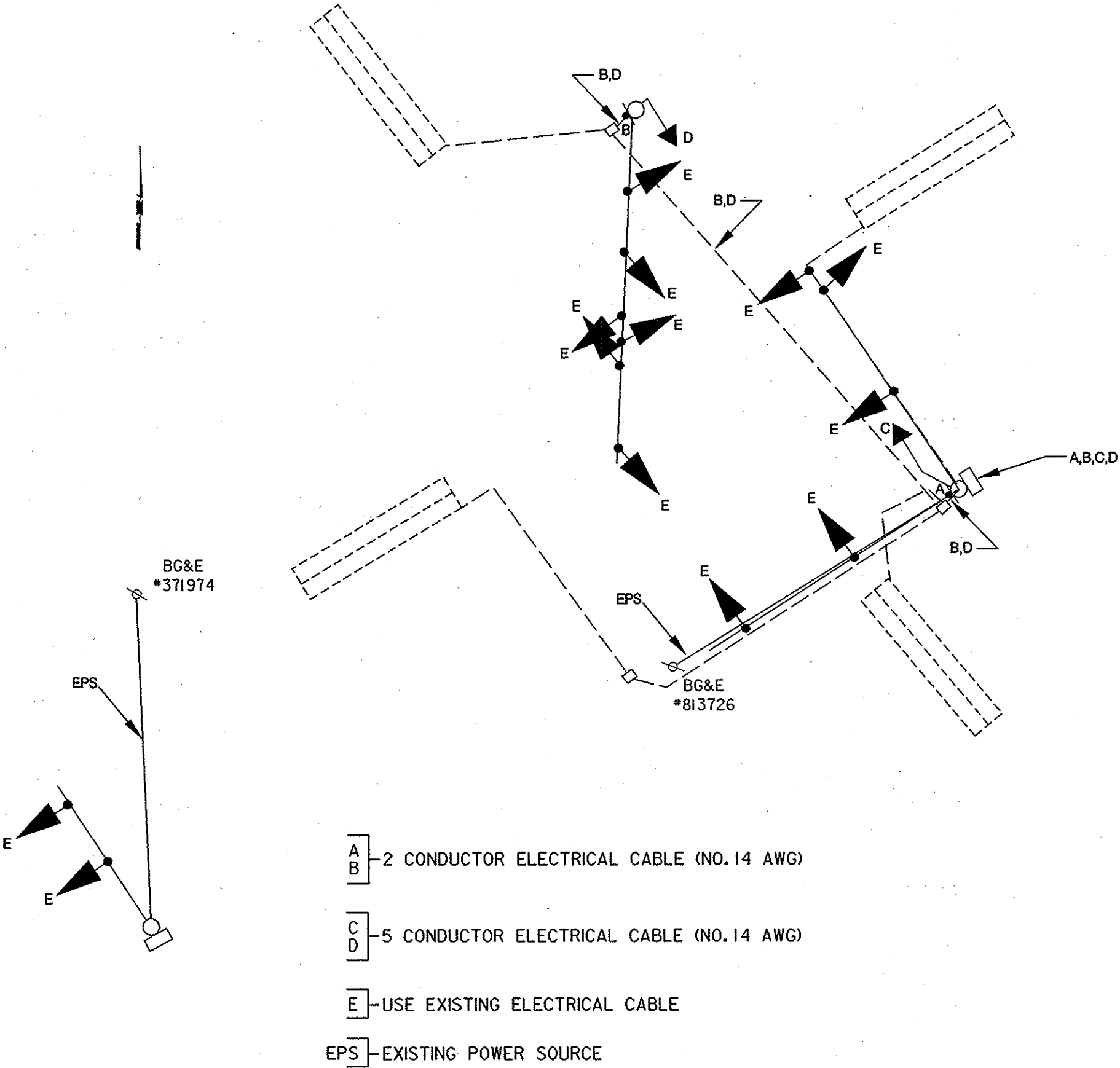
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
8002	20 EA	12 INCH RED OR GREEN LED SIGNAL HEAD SECTION
8003	14 EA	12 INCH YELLOW LED SIGNAL HEAD SECTION
8006	1 EA	2 WIRE CENTRAL CONTROL UNIT
8011	9 EA	8 INCH LED SIGNAL (R, Y, G) HEAD SECTION
8014	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSH BUTTON
8024	2 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT
8028	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8037	10 SF	DETECTABLE WARNING SURFACE
8064	11 SF	INSTALL OVERHEAD SIGN
8076	150 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8078	150 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

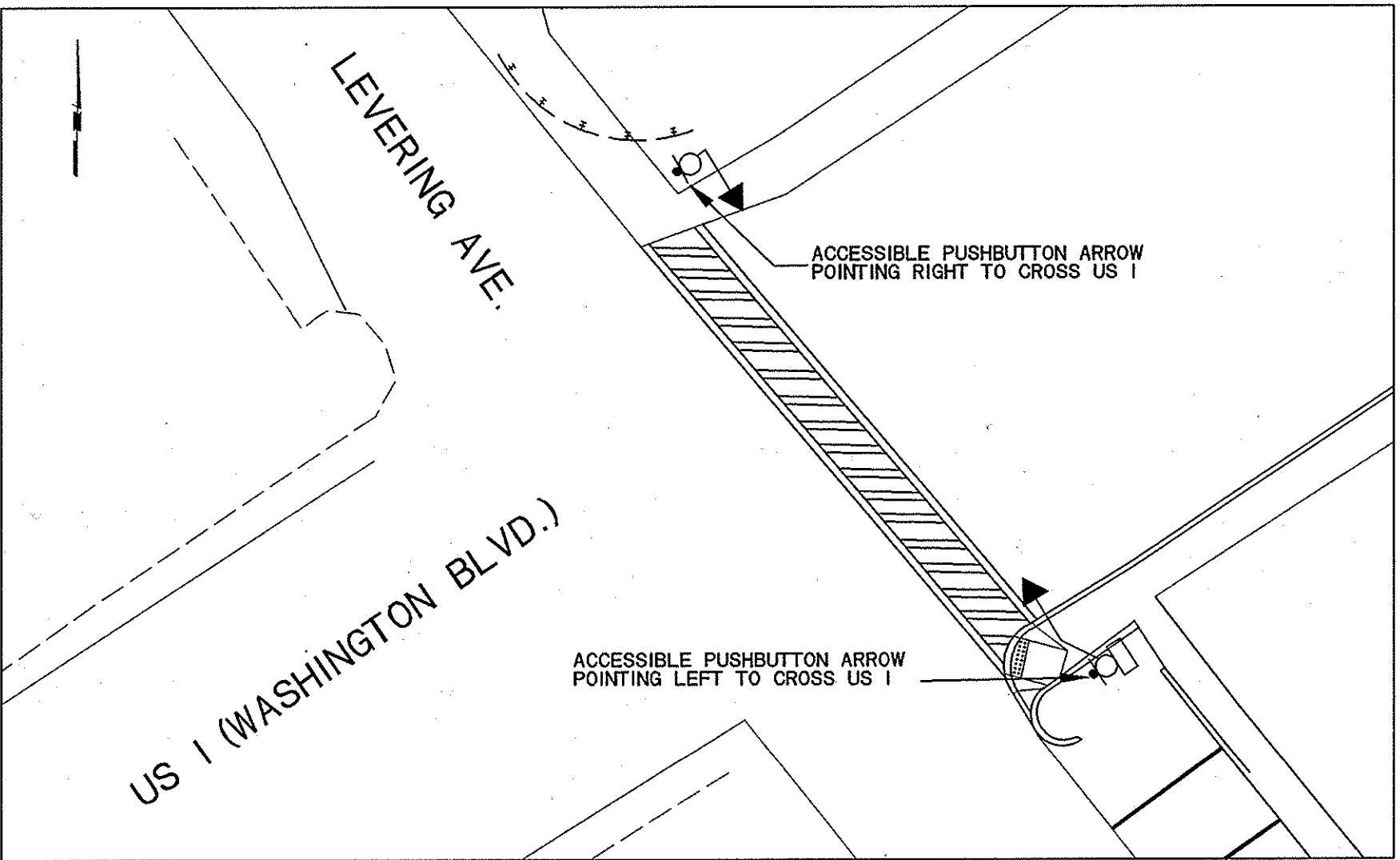
WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	
PHASE 1 & 5	FL/Y	FL/Y	→G	→G	R	→G	→G	R	R	R	R	R	R	DW	DW	
PHASE 1 & 5 CHANGE																
PHASE 1 & 6	FL/Y	FL/Y	→G	→G	G	R	R	R	R	R	R	R	R	DW	DW	
PHASE 1 CHANGE	FL/Y	FL/Y	→G	→G	G	R	R	R	R	R	R	R	R	DW	DW	
PHASE 2 & 5	FL/Y	FL/Y	R	R	R	→G	→G	G	R	R	R	R	R	DW	DW	
PHASE 5 CHANGE	FL/Y	FL/Y	R	R	R	→G	→G	G	R	R	R	R	R	DW	DW	
PHASE 2 & 6	FL/Y	FL/Y	G	G	G	G	G	G	R	R	R	R	R	DW	DW	
PHASE 2 & 6 CHANGE	FL/Y	FL/Y	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	
PHASE 4 & 8	FL/Y	FL/Y	R	R	R	R	R	R	G	G	G	G	G	DW	DW	
PHASE 4 & 8 CHANGE	FL/Y	FL/Y	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	
PHASE 4 & 8 ALT	FL/Y	FL/Y	R	R	R	R	R	R	G	G	G	G	G	W	W	
PED CLEARANCE	FL/Y	FL/Y	R	R	R	R	R	R	G	G	G	G	G	FDW	FDW	
PHASE 4 & 8 ALT CHANGE	FL/Y	FL/Y	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	

ACCESSIBLE PUSHBUTTON LAYOUT DETAIL



TOD No: AT782-23
SHA No: HO431A52/B52
Howard County



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 1 (WASHINGTON BLVD.) AND LEVERING AVENUE

GENERAL INFORMATION

SCALE 1"=20' DATE 12/06 CONTRACT NO. AT7825185

DESIGNED BY SDY COUNTY HOWARD
DRAWN BY MCG LOGMILE 13000110.76
CHECKED BY BAB T.I.M.S. NO. H320
F.A.P. NO. TOD NO.

DRAWING NO. TS-385G OF SHEET NO. 2 OF 2